

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/BR 03/00054

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B02C21/02 B65G15/02 B65G15/16 B65G37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B02C B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 11 34 027 B (FRANZ CLOUTH RHEINISCHE GUMMIW) 26 July 1962 (1962-07-26)	1,2,4,5,7
Y	column 3, line 1 - line 5; figure 1	9-11,13,14
Y	US 5 996 769 A (WINCHIP LOUIS L) 7 December 1999 (1999-12-07)	9-11,13,14
A	column 2, line 22 - line 67; figures 1-3 column 6, line 27 - column 7, line 13	1,2,5,6
X	US 4 203 512 A (AMMERAAL THOMAS C M) 20 May 1980 (1980-05-20) figures 2,7,8	1,2,5
A	US 4 598 875 A (BRONSON LARRY D ET AL) 8 July 1986 (1986-07-08) column 6, line 1 - line 5; figures 1-6	1,6,8,9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

10 June 2003

Date of mailing of the international search report

23/06/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 60 188216 A (MATSUSHITA DENKI SANGYO KK) 25 September 1985 (1985-09-25)  abstract; figure 1 -----	1,2,4,5, 7,12,15, 18-21

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5996769	A	07-12-1999	NONE	
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